Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	
PO039368	ACI001-VC	3	1	Net 30 *		6061-T6 .080 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				128	3/29/2018	144		\$056938	Ştock	3/29/2018	\$ 7.14 / sf	0		
		6				2024-T3 .040 Sheet: MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A- 250/4 OR AMS-QQ-A- 250/4 OR AMS 4037 OR ASTM B209				144		144		\$056939	Stock	3/29/2018	\$ 5.83 / sf	0		
		7				2024-T3 .080 Sheet : MATERIAL : 2024-T3 ALUMINUM SHEET AS 7ER QC-A- 250/4 OR AMS 1037 OR NSTM B209 eceive sf				48		48		6056940	Stock	8/29/2018	5 11.81 / sf	0		
						aceive si			Total:	320		336								\$1

Plex 3/29/2018 2:28 PM Dart Dubois Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

PURCHASE ORDER PO039368

ACI001-VC Supplier:

Acier Ouellette Inc.

935 Boul. Du Havre Valleyfield

QC

J6S 5L1 Canada

Phone: 800 667 4248 Fax: 450 377 5696

PO No:

PO039368

PO Date:

3/20/18

Due Date: **Purchase Order**

3/23/18

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: QUOTE NO. SOU0092664

				Items						
Line	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6S.040		6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	32 sf	32°	, M	\$4.4757812/sf	3/ 9-4
2	M6061T6S.063		6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	192 sf	192		\$5.6397916/sf	0
3	M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	3/23/18	128 sf	0E	1	\$7.1421093/sf	DAS 119 9-89
4	M6061T6S2.250X13.500		6061-T6 Sheet 2.250" Thick x 13.500" Wide : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209	Firmed	3/23/18	6 ft	6		\$209.70666/ft AR 2 6 2018	\$1,258.24

				tems					11.7	Extended
ine		Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Price (CAD)	Price
5	M6061T6S2.250X2.750	T at No	6061T6 Bar 2.250 X 2.750 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft PLATE ACCEPTABLE	Firmed	3/23/18	6 ft	12		AR 2 6 2019	\$669.12 Da 9-8
6	M2024T3S.040		2024-T3 .040 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209	Firmed	3/23/18	144 sf	144) 144 sf	\$5.8270833/sf MAR 2 9 2016	\$839.10 DAS 11 9-89
7	M2024T3S.080		2024-T3 .080 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	3/23/18	48 sf	48) 48 sf	\$11.809375/sf	9-89
8	M304S20GA		304/316 .040 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	3/23/18	128 sf	138	128 sf	\$3.9089375/sf MAR 2 6 2018	\$500.34 DA 9-8
9	M304S16GA		receive sf 304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	3/23/18	96 sf	96 96	96 sf	\$6.5086458/sf MAR 2 6 20	\$624.83
10	M304S18GA		304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	3/23/18	96 sf	% %) 96 sf	\$5.375/sf	\$516.00 18
11	M4130NR5.000		4130 Steel Round Bar 5.000" : MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft	Firmed	3/28/18	3 ft	0 ft	3 ft	\$253.3333/ft	\$760.00

Order Notes

Plex 3/20/18 2:52 PM dart.lavoie.chanta

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/20/18 2:52 PM dart.lavoie.chantal

	2	-
	h	
	J	
1182.		

DELIVERY - USINE

Copy C000079774

	935. Boul du Hâvre		Customer N°	CTIUUUIUS
OOLLLIJE ME	Salaberry de Valleyfield (Québec) J6S 5L1	uébec) J6S 5L1	Date	2018/03/21
	Fax: 450-377-5696 Mtl: 51	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 800-667-4248	Delivery date	2018/03/29
			Your order No	039368
Billed to	Shipped to		Processed by	Josianne Bourdon
CONTRACTOR OF THE			Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Untario,		Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE	Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route	5	Page	2
Product Description	Weight		PCS NB	Internal Use Only
riodact pescilption	AAGIAIIL	Qty U/M	CMD EXP B/O	IN I S C
4 ROUND 4130 5 NS R4130-5 10290	200.28	3.00 PI_\$CLB	×	
1 x 36" LINE 11 AC14567-AA-29/03 BACK-ORDER	, N			
Conditions: All sold and delivered materials remain the property of "Acier Ouellette Inc." until payn	Total Weight (Lbs): ment is made in full, complete and cashed	: 500.42	NIR: R-109516-6 se. The warranty offered by	
All sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to expect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking or arge.	ment is made in full, complete and cashe is warranty is transferred by "Acier Ouelli inistration charges of 2% per month (24 er, at his choice to claim for the balance naged, cut or modified cannot be return	ed. All lost materials are at the buyer's expen lette Inc." to the client. The buyer hereby acc 19% per annum) on all past due amounts over 19% per annum) on all past due amounts over 19% per buyer of the goods sold. A led. All goods returned must be with our auth led. All goods returned must be with our auth	nse. The warranty offered by ccepts to respect the r 30 days, Any default in All claims must be made thorization and are subject to	

repared ...

Verified By :

Delivered By:

Time

Customer's Signature

Date

O

Total (\$CAD)

DELIVERY - CLIENT

CO00079774



Billed to

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD Shipped to 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Date Salesman Processed by Your order N° Delivery date Customer N° 039368 CLI0001056 Josianne Bourdon 2018/03/29 2018/03/21

יייי מייייי איייייייייייייייייייייייייי	Tionact pescipaton	Broduct Description	on F-M	
167 20	weight	Moint	Delivery Route	Att : CHANTAL LAVOIE Tél.: 613-632-5200
144 00 DIO #CI B	44	2	5	E Tél.: 613-632-52
DID #CIB	0/19	- M		200
	CMD		Page	Credit
	EXP	PCS NB	10	lit Term
	В/О	В		(D
400	IN	I	1	Net 30 Day
	H	Interna		Ŋ
	S	al U		

, Ontario,

Carrier

OUELLETTE VALLEYFIELD

ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195 3 X 4' X 12' 4EAT: 462526 LINE 3 ACI4562-54-26/03 ALU SHEET .040 (18G) 2024-T3 4B (4 X 12) FEAL-0404122024B 3118 3 X 4' X 12' 4EAT: 24310888 LINE 6 ACI4562-54-26/03 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 ACI4562-54-26/03 ACI4562-54-26/03	12) VE 6	164.30 81.07	144.00 144.00 144.00	SZ W	(4,X) (4,X)		1241 3) 612 1241
164.30 144.00 PIZ_\$CLB	E 3	164.30 81.07	144.00 144.00 48.00	W W	(X, h)		(W) / W
E7 81.07 144.00 PIZ_\$CLB 2	E 3	81.07	144.00	W W	(X, T)		(w)
12) 81.07 144.00 PIZ_\$CLB 3X4'X/Z' VE 6 54.77 48.00 PIZ_\$CLB 1 X4X1Z'	12) VE 6	81.07	144.00	32	1X.h		(w)
12) 81.07 144.00 PIZ_\$CLB 3X4'X/Z' WE 6 54.77 48.00 PIZ_\$CLB 1 X4X1Z'	12) VE 6	81.07	144.00	32	1X.h		(w)
12) 81.07 144.00 PIZ_\$CLB 3X4'X/Z' WE 6 54.77 48.00 PIZ_\$CLB / X4X/Z'	12) VE 6	81.07	144.00	3%	1X.h		(W
1 X 4 X 12 1	VE 6	54.77	48.00	33	1X.h	7	
VE 6 54.77 48.00 PIZ_\$CLB 1 X 4 X 12	VE 6	54.77	48.00	3/	1 1 1		
54.77 48.00 PIZ_\$CLB / X 4 X 1 Z /	VE 6	54.77	48.00				
54.77 48.00 PIZ_\$CLB / X 4 X 1 Z /		54.77	48.00				
JUNE? 1 KHX12							1
JUNE? / KTKIC				-		12/01/	
AC14562-5A-26/03					77	,	

NIR: R-109516-6



DELIVERY - CLIENT

Copy C000079774

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) da "a with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking.

Total Weight (Lbs): 500.42

NIR: R-109516-6

Prepared

Verified By:

Delivered By:

Time

Customer's Signature

Date

O

Total (\$CAD)

Arconic

3427326 Ship Date 2018-02-15

B.L. No. 11655753

P.O. No./Govt Contract No.

Customer 00000 Invoice No

> 1000979722-1 Arconic No. Ship From:

DPE-79722-1

RIVERDALE, IA.

Arconic Item

C75324 Ln#: 1

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

We hereby certify that the malerial covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits, and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No aliaration, addition or other change is authorized to be made to this certificate. The recording of false, ficatious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a fetony under applicable law.

Per:

Nandu Srinivasan Manufacturing Director - Davenport & Setellike S. Marie

Terrence Thom Quality Assurance Manage To the

Page 1 of 2

Item Description
0.08*IN TK (+0.0000 -.0045) X 48.0*IN W (+.125 1.25) X 1.44*0 IN LN (+.15625 -.15625) CAT D 126901 (N) A/T-5061T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AMS403-FERV N. ANSIH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTWB203 PEV 14
((MARKED)) KRAFT PAPER INTERLEAVED
((MARKED)) KRAFT PAPER INTERLEAVED MAX GROSS SKID WGT: 4750 LB QUAN TOL +/25 % CQR D126901 REV 47 CUST REQ 18-0210 *** W/E 18-02-17 ***

462526 462526 Lot 4705 2276 2429 Weight 91 47 Quantity MOU Da Da 27107 47431 46940 27107 47431 46940 Inspector Clock Numbers

Num 1

432702 1036079 Package Ticket

Notes for CQR: D126901.47 PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED

CQR: D126901.47 -Specification Limits

Tmpr Dir Long Transv. Max Min 42.0 KSI SID 35.0 TYS 10 EL4D PCT

Alloy 6061 Chemical Composition

Max 0.8 0.40 FE CU MN MG CR ZN TI Each 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.15 0.8 0.04 Other Other

Total Aluminum 0.15

3427326 Ship Date 2018-02-15 Ship From: RIVERDALE, IA.

Arconic No. Item

11655753 Customer Invoice No. 1000979722-1 Arconic Item

DPE-79722-1

P.O. No./Govt Contract No. C75324 Ln#: 1

This test report shell not be reproduced except in full, without the written approval of the Quality Department, No alteration, addition or other change is authorized to be made to this certificate. The recording of false, inditious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Terrence Thom Quality Assurance Manager

Nandu Srinivasan Manufacturing Director - Davenport & Satellites

Page 2 of 2

														-	3	-
This	Cast Numbe 1780541031											16	rdur		Lot: 462526	COR:
This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States	Cast Number 1780541031											Fong	Dir	-	462526	CQR: D126901.47 -Specification Limits (cont.)
Was	Che											Long Transv.		1	1	.47 -8
melted	Chemical Actuals		,									٧.	,		Mechai	pecif:
int	OES											11	Test	No->	nical,	icatio
he Uni	0.66												it	٧	Physi	n Limi
ted St	0.5	49.7	49.9	49.8	49.9	49.8	49.8	49.9	49.9	49.9	49.9	49.9	KSI	UIS	cal, N	ts (cc
ates	CU 0.26	7	9	8	9	8	80	9	9	9	9	0			Metallo	ont.)
or a Qu	MN 0.01	43.8	44	44	44	43.9	44	44	44	44.1	44.1	44	KSI	SYT	- Mechanical, Physical, Metallography, Quantometer Results :-	
alify	MG														/, Qua	
ing Cc	CR 0.17	12.2	12.2	12.4	12.1	12.1	11.7	12	12.1	12	12.1	12	LOA	EL4D	ntomet	
untry	0.01														er Res	1
[REF]	TI 0.05														ults :	- 1
DFARS :	TI Other 0.05 < 0.05															1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
225.87	r Each															10 0 0 0
2.1(a)	Each Other														1 1 3 1	1 1 1
]; 1t	Total														5 6 9 1	
was n	Р														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
nanufa															1	8 8 11
stured															1	1 1
in th																
le Uni															1	
ted St																
ates																

KAISER ALUMINUM Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586 **CERTIFIED TEST REPORT**

Serial Number 4482962

GOV'T CONTRACT NUMBER: SHIP RUN/LOAD: CUSTOMER PART NUMBER: CUSTOMER PO NUMBER: WORK PACKAGE: 104079/25 C74796-1 PRODUCT DESCRIPTION: TEMPER: SHIP DATE: ALLOYA CLAD: KAISER ORDER NO: HT Flat Sheet T3 2024 BARE 24-OCT-2017 1244537-1 DIAMETER/WIDTH: LENGTH: TRUCK B/L #: QUANTITY: WEIGHT SHIPPED: 144.000 IN / 0.0400 IN 48.000 IN / (1219.2 MM) (3657.6 MM) 2069706 3279 LB 117 PCS EST. (1.0180 MM)

MHU 2160707: LOT/243108B8: 117 pieces; 1124461

Certified Specifications

√ AMS-QQ-A-250/4/RevB √ AMS 4037/RevQ. CMMP 025/RevV CMMP 019/RevD

√ ASTM B 209/Rev14

Test Code: 1504 Lot: 243108B8

Cast 527

Drop 60

MN

MN

Test Results Ingot 2

Melted in USA

TOT

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper

T3

Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 65.1:65.3

Yield KSI (MPA) 44.3:44.7 (305:308)

Elongation % 17.3:18.8

(ASTM E1251) Chemistry: Actual(wt%)

SI FE 0.20 0.07

CU 0.57 4.5

MG 1.3

(449: 450)

CR ZN 0.00 0.11 TI

0.01

0.02

ZR

0.01

ALLOY LIMITS

FE 2024 0.00 0.00 MIN(wt%) 0.50 0.50 MAX(wt%)

3.8 0.30 4.9 0.9

CU

0.00 1.2 1.8 0.10 **Aluminum Remainder**

MG

ZN 0.00 0.25

TI .0.00 0.00 0.15 0.05

ZR OTHER 0.00 **EACH** 0.05 TOT

0.05 0.15

MAX

OTHER

0.02



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4482962

CERTIFICATION

Kalsar Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

* All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses cutakle specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

* was meted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the United States of America, and meets the requirements of DFARS 255.872-1 (a), was manufactured in the Unit

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

PO.14562

KA	15	E	R
ALL	IMI	NU	M

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4466392

179

CUSTOMER PO NUMBER: WORK PACKAGE: CUSTOMER PART NUMBER: SHIP RUN/LOAD: GOV'T CONTRACT NUMBER: 103950/20 C74254-5 PRODUCT DESCRIPTION: KAISER ORDER NO: SHIP DATE: ALLOYS CLAD: Kaiser Stretched 1236242-5 12-JUN-2017 2024 BARE WEIGHT SHIPPED: QUANTITY: TRUCK B/L #: DIAMETER/MIDTH: 48.000 IN / (1219.2 MM) 0.0800 IN 144.000 IN 58 PCS EST. 2067334 3276 LB (2.0320 MM) (3657.8 MM)

MHU 2116107: LOT 223973B9: 58 pieces; \$217517

Certified Specifications

✓ AMS 4037/RevQ CMMP 019/RevD ✓ AMS-QQ-A-250/4/RevB ✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Results " Test Code: 1504 Melted in USA Lot: 223973B9 Ingot 4 **Cast 433** Drop 77 (ASTM E8/B557) (EN 2002-1) Dir / # Tests Ultimate KSI (MPA) Yield KSI (MPA) **Elongation %** Tensile: , Temper LT / 2 (Min:Max) 68.1:68.2 47.3 : 47.5 18.1:18.3 Т3 (470 : 470) (326:328)(ASTM E1251) CU MN MG ČR ZN TI V ZR OTHER SI FE-Chemistry: 1.4 - 0.01 0.09 -0.020.01 0.01 TOT 0.05 Actual(wt%) 0.10 0.19 4.7 0.58 **ALLOY LIMITS** MN MG CB ZN TI ZR OTHER MAX SI FE ÇU 2024 . 1.2 0.00 0.00 0.00 **EACH** 0.05 0.30 -0:00 0.00 3.8 MIN(wt%) 0.00 0.00 0.9 1.8 0.10 0.25 0.05 0.05 0.15 0.15 TOT MAX(wt%) 0.50 0.50 4.9 Aluminum Remainder



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4466392

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

*has been inspected, tested, and found to be in conformance with the requirements of the specifications indiscreted herein.

All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

*was methad in the United States of America, and meets the requirements of DFARS 252.225 for domastic content.

*was methad in the United States of America, and meets the requirements of DFARS 252.225 for domastic content.

*has been thermally processed in compliance with AMS 2772, where applicable.

*Is mercury free, within the limits of detection of ASTM E1215 [<1ppm].

*Is in compliance with RoN3 2, European Union Directive 2011/185/EU.

*Is in compliance with RoN3 2, European Union Directive 2011/185/EU.

*Is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

*Is free of weld repeir.

*meets the reporting requirements of EN10204, Typs 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's stendard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum leboratory. The recording of felse, fictitious or fraudient statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE: _	MAR 2 9 2018	PO / BATCH NO.: 0393685056940
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _ QUANTITY INSPECTED: _ QUANTITY REJECTED: _	48 PIZ 48 PIZ	THICKNESS ORDERED: 480 THICKNESS RECEIVED: 1080 SHEET SIZE ORDERED: 4X12

DESCRIPTION	(Ch	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-150/41
CORRECT THICKNESS	(7)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(2)	N	Heat # 22397389
CORRECT MATERIAL IDENTFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(z)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-8MAR 2 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SHEET 1 OF 1 REV. B 01.09.24 09 07 07 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M2024T3S

TITLE

BY
DATE
HAWKESBURY, ONTARIO, CANADA
TITLE
TITLE
TITLE

BY
DATE
HAWKESBURY, ONTARIO, CANADA
TITLE
T DATE 9 Z024-T3 SHEET SPEC B REFORMAT DWG, ADD ASTM B209 SPEC (ZN D8-1), PAR 09-02UA
A NEW ISSUE CHECKED MEG. APPR. NA APPROVED W. DE APPR. DATE 09.07.07 DESIGN

WHERE ".XXX" = SHEET THICKNESS (IN INCHES) OQ-A-250/4 DR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 M2024T3S|XXX SPECIFICATION: PART NUMBER:

XXX BY 4FT BY 10FT PREFERRED SIZE:

EG. 0.063" THICK SHEET = M2024T3S.063

O

Ω

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION CONTROL DRAWING

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M20	2	PO / BATCH	1 NO.: 239	368/50		
DATE: MAI	_					
MATERIAL CERT REC'D:	105		ТНИ	CKNESS ORDE	PED:	2110
QUANTITY RECEIVED:	1441615		_			
	1771			CKNESS RECE		
QUANTITY INSPECTED:	741			ET SIZE ORDE		XIZ
QUANTITY REJECTED:	2		SHE	ET SIZE RECE	IVED: 4	X12
	NCR					
DESCRIPTION	(Check			COMMEN	TS	
	Y/N)					
SURFACE DAMAGE	Y (N)					
CORRECT FINISH	(Y) N					
CORROSION	YM					
CORRECT GRAIN DIRECTION	(X) N	1	A A A	22 /		
CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS	Y N	4ms	-QQ-14-	250/4		
PHOTO REQUIRED	YN					
CORRECT REF # TO LINK CERT	(V) N	Host	# 2431	CADRA		
CORRECT MATERIAL IDENTFICATION		11201	4 2 131	Jope		
CORRECT M# ON THE MATERIAL	(Y) N					
DOES THIS MATERIAL REQUIRE						
ENGINEERING SIGN OFF	YN					
DOES THIS REQUIRE AN						
EXTRUSION REPORT	Y (N)					
CUT SAMPLE PIECE	OF MATI	ERIAL A	ND PREFORM	M A HARDNE	SS CHECK	
			ULTS BELOW		oo on Lore.	
		IRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READIN	1G					
	testers lo	ocated in	the Quality Offic	<u>e</u>		
QC 18 INSPECTION				ENCINEED	INC SIGNOR	T (:f 1)
DAS				LINGINEER	ING SIGNOF	F (if required)
INSPECTED BY: 11			SIGN	IED OFF BY:		
MAR 7	9 2010		0,01	LD OFF BY.		
DATE: 9-89 1771 2 5 2018				DATE		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B SCALE NTS SHEET 1 OF 1 01.09.24 70 70.60 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DEAWING NO

M2024T3S G C DS BY 2024-T3 SHEET SPEC B REFORMAT DWG. ADD ASTM 8209 SPEC (ZN D8-1), PAR A NEW ISSUE CHECKED WEG. APPR. APPROVED AND DE APPR. DATE 09.07.07 DESIGN REV.

WHERE ".XXX" = SHEET THICKNESS (IN INCHES) QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMB #037 OR ASTM B209 M2024T3S XXX SPECIFICATION: PART NUMBER:

EG. 0.063" THICK SHEET = M2024T3S.063 XXX BY 4FT BY 10FT

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

PREFERRED SIZE:

O

0

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: Mbolet 165-080 DATE: MAR 2 9 2018	PO / BATCH NO.: <u>039:368/S05</u> 6935
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 080 THICKNESS RECEIVED: 080 SHEET SIZE ORDERED: 4x12 SHEET SIZE RECEIVED: 4x12

		CR	
DESCRIPTION	(Cr	neck	COMMENTS
	Y	N) C	
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Y)	N	4 1
CORRECT MATERIAL PER M-DRAWING	Y	N	Astm B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(8)	N	12011462526
CORRECT MATERIAL IDENTFICATION	0	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE	0	4	
ENGINEERING SIGN OFF	Y	(1)	
DOES THIS REQUIRE AN		0	
EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-8MAR 2 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6081-T6/T62/T651 ALUMINUM SHEET OR PLATE 0

SPECIFICATION:

QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR 4027 OR ASTM B209

PART NUMBER:

0

M6061T6S XXX X W.WWW THK WIDTH

Ų

60

WHERE ".XXX" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M606/16S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M606/16S.500X3.500

PREFERRED SIZE:

0

XXX BY 4FT BY 8FT FOR SHEET

REV. C SCALE SHEET 1 OF 1 ML DRAWING NO.

R. JFS M6061T6S

AB TITLE

AR COPYRIGHT 6 2018 FOR LAY ARGSFACE TO NIT OFFICE COPYRIGHT FOR LAY ARGSFACE TO NIT OFFICE COPYRIGHT FOR LAY ARGSFACE TO NIT OFFIC 17.12.13 01.06.08 09.07.13 ML CP RF BY REFORMAT DWG, ADD 8209 SPEC (ZN D8-1). REF PAR 08-020A DESCRIPTION C ADD PLATE AND T851 SPEC 17.12.13 NEW ISSUE MFG. APPR.
APPROVED
DE APPR.
DATE 17 CHECKED DRAWN DESIGN REV. < 8 APPROVED

> CHONNINE THIE 2018 MAR 13 00 EN 18-655

 ∞

<

40

U

۵

00